



Please Click here to view the drawing

Korean FullDoc.

English Fulltext

(19)



KOREAN INTELLECTUAL PROPERTY OFFICE

## KOREAN PATENT ABSTRACTS

(11)Publication number: 1020020057470 A

(43)Date of publication of application: 11.07.2002

(21)Application number: 1020010000513

(22)Date of filing: 05.01.2001

(71)Applicant:

CJ CORP.

(72)Inventor:

HAN, JONG GWON  
JANG, JAE YEONG  
KIM, JEONG HWAN  
KWAK, YEONG HYEON  
LEE, GWANG HO  
LEE, JAE HEUNG  
LEE, JIN HO  
OH, YUN SEOK  
PARK, JANG HUI  
SIM, JAE IK

(51)Int. Cl.

C12N 1/20

(54) CORYNEBACTERIUM AMMONIAGENES NV4-82-9 PRODUCING 5-XANTHYLIC ACID IN HIGHER YIELD AND PRODUCTION METHOD OF 5-XANTHYLIC ACID BY USING THE SAME

(57) Abstract:

PURPOSE: Provided are a microorganism, Corynebacterium ammoniagenes NV4-82-9, producing 5-xanthylic acid in higher yield and having Norvaline resistance, and a production method of 5-xanthylic acid by using the same.

CONSTITUTION: Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) produces 5-xanthylic acid(XMP) and shows Norvaline resistance. Particularly, It is characterized by growing in the presence of an infinitesimal quantity of or 6g/l of Norvaline. 5-xanthylic acid is produced by the steps of: firstly shacking culturing Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) in a seed culture medium at 30 deg.C, pH 7.3 with 180 rpm for 24 hours; secondary shacking culturing the firstly cultured Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) in a seed culture medium at 31 deg.C, pH 7.3 with 900 rpm for 24 hours to activate it; and shacking culturing the secondary cultured Corynebacterium ammoniagenes NV4-82-9(KFCC-11248) at 33 deg.C with 400 rpm for 90 hours in a fermentation medium, wherein if the content of sugar remaining in the culture solution is 1% or less, glucose can be added in the amount to reach total sugar content of 30%.

copyright KIPO 2003

## Legal Status

Date of request for an examination (20010105)

Notification date of refusal decision ( )

Final disposal of an application (registration)

Date of final disposal of an application (20030731)

Patent registration number (1004023200000)